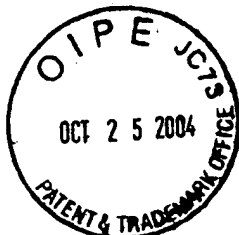


32692

Customer Number

Patent
Case No.: 58994US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: LEE, TZU-CHEN

Application No.: 10/809135

Group Art Unit: 2811

Filed: March 25, 2004

Examiner: Unknown

Title: ORGANIC SCHOTTKY DIODE

INFORMATION DISCLOSURE STATEMENTMail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]**

I hereby certify that this correspondence is being:

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OCT 22 2004

Date

Hylis H. Froelke
Signed by: Hylis H. Froelke

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered. Copies of any cited foreign patents, foreign publications, non-patent literature documents; and any pending U.S. applications filed before June 30, 2003, are enclosed. Copies of any pending U.S. applications filed after June 30, 2003 that can be accessed on the USPTO's IFW system are not enclosed as per USPTO Waiver dated September 21, 2004. Copies of any U.S. patents and published U.S. patent applications are not enclosed.

If a first Office Action on the merits has been mailed prior to the mailing date of this document, please charge the fee for consideration of an Information Disclosure Statement set forth in 37 CFR § 1.17(p), and if necessary, please charge any additional fees, or credit any overpayment to Deposit Account No. 13-3723.

Respectfully submitted,

Date

10/22/04

By:

Kent S. Kokko
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date

March 25, 2004

First Named Inventor

Lee, Tzu-Chen

Art Unit

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Examiner Name

Hung K. Vu

Attorney Case Number

58994US002

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Page 1 of 4

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 2003/0105365 A1	06/05/2003	Smith et al.	
	A2	US- 6,114,088	09/05/2000	Wolk et al.	
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			

Foreign Patent Documents

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		Ctry. Code	Number-KindCode (if known)				
	B1	EP	1 017 118 A2	07/05/2000			
	B2	WO	00/17911 A1	03/30/2000			
	B3						
	B4						
	B5						
	B6						
	B7						

OTHER DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	E. A. Silinsh and V. Capek, "Organic Molecular Crystals" AIP Press, New York, 1994.	

*Examiner:

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	C2	Y. Shirota, T. Kobata, and N. Noma, "Starburst Molecules For Amorphous Molecular Materials, 4,4',4''-tris(N,N-diphenylamino)triphenylamine and 4,4'4''-Tris(N-(3-methylphenyl)-N-phenylamino)triphenylamine", Chemistry Letters, The Chemical Society of Japan, Vol. 7, pp. 1145 - 1148, 1989.	
	C3	Yasuhiko Shirota, "Organic Materials for Electronic and Optoelectronic Devices", Journal of Materials Chemistry, Vol. 10, pp. 1 - 25, 2000.	
	C4	M. Pfeiffer, A. Beyer, T. Frit, and K. Leo, "A Controlled Doping Of Phthalocyanine Layers By Cosublimation With Acceptor Molecules: A Systematic Seebeck And Conductivity Study", Applied Physics Letters, Vol. 73, No. 22, pp. 3202 - 3204, November 30, 1998.	
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	C6	X. Zhou, M. Pfeiffer, J. Blochwitz, A. Werner, A. Nollau, T. Fritz, and K. Leo, "Very-Low-Operating-Voltage Organic Light-Emitting Diodes Using A P-Doped Amorphous Hole Injection Layer." Applied Physics Letters, Vol. 78, No. 4, pp. 410 - 412, January 22, 2001.	
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	C10	J. Dreschel, M. Pfeiffer, X. Zhou, A. Nollau, K. Leo, "Organic Mip-Diodes By p-Doping Of Amorphous Wide-Gap Semiconductors: CV and Impedance Spectroscopy", Synthetic Metals, Vol. 127, pp. 201 – 205, March 2002.	
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	C13	J. Paloheimo, P. Kulvalainen, H. Stubb, E. Vuorimaa, and P. Yli-Lahti, Appl. Phys. Lett., "Molecular Field-Effect Transistors Using Conducting Polymer Langmuir-Blodgett Films", Vol. 56, No. 12, pp. 1157 – 1159, March 19, 1990.	
	C14	K. Hoshimono, S. Fujimori, S. Fujita, and S. Fujita, "Semiconductor-Like Carrier Conduction and Its Field-Effect Mobility in Metal-Doped C ₆₀ Thin Films", Japanese Journal of Applied. Physics, Vol. 32, No. 8A, pp. L1070 – L1073, August 1, 1993.	
	C15	A. Nollau, M. Pfeiffer, T. Fritz, and K. Leo. Journal of Applied Physics, "Controlled n-Type Of Doping Of A Molecular Organic Semiconductor: Naphthalenetetracarboxylic Dianhydride (NTCDA) Doped With bis(ethylenedithio)-tetrathiafulvalene (BEDT-TTF)", Vol. 87, No. 9, pp. 4340 – 4343, May 1, 2000.	
	C16	A. Werner, F. Li, K. Harada, M. Pfeiffer, T. Fritz, K. Leo, and S. Machill, "n-Type Doping of Organic Thin Films Using Cationic Dyes", Advanced Functional Materials, Vol. 14, No. 3, pp. 255 – 260, March 2004.	

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Application Number	10/809135
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	C17	Z. Bao, A. J. Lovinger, and J. Brown, "New Air-Stable <i>n</i> -Channel Organic Thin Film Transistors", Journal of the American Chemical Society, Vol. 120, No. 1, pp. 207 – 208, 1998.	
	C18	P. R. L. Malenfant, C. D. Dimitrakopoulos, J. Gelorme, L. L. Kosbar, and T. O. Graham, "N-Type Organic Thin-Film Transistor With High Field-Effect Mobility Based On A N,N'-dialkyl-3,4,9,10-perylene Tetracarboxylic Diimide Derivative", Applied Physics Letters., Vol. 80, No. 14, pp. 2517 – 2519, April 8, 2002.	
	C19	U.S.S.N. 10/620027 filed July 15, 2003, entitled "Bis(2-Acenyl)Acetylene Semiconductors"	
	C20	U.S.S.N. 10/641730, filed August 15, 2003, entitled "Acene-Thiophene Semiconductors"	
	C21		

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